91-03553/

Ontario

Ministry of
Northern Development
and Mines

Mines and
Minerals
Division

GEOLOGICAL DATA INVENTORY FOLIO

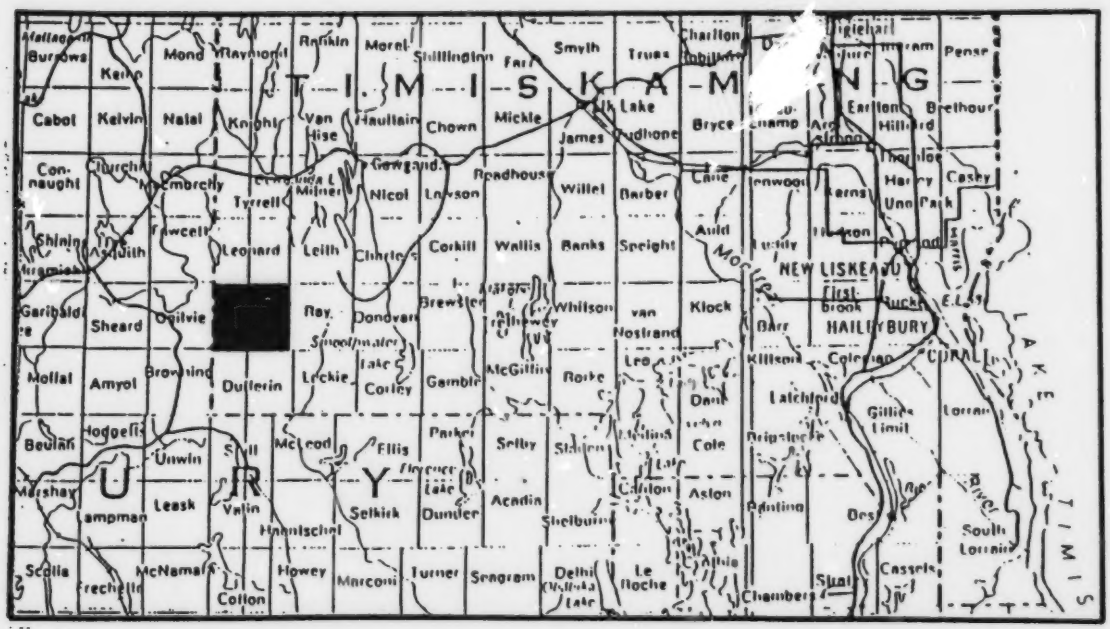
GDIF 570

NORTH WILLIAMS TOWNSHIP

LARDER LAKE MINING DIVISION

NTS No. 41P/6,7

Compiled by the staff of
the Resident Geologist's Office
COBALT



LOCATION MAP

CANADA ONTARIO
Mineral Development
Exploitation Minérale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

Mining Claim Map Number M.240

This project was funded under the Canada Ontario Mineral Development Agreement (COMDA), 1985-1990.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1991. North Williams Township, Geological Data Inventory Folio 570 ; compiled by the staff of the Resident Geologist's Office, Cobalt.

Original Compilation by: Anderson, Patricia, January 1990.

Date	Page(s) Revised	Revised by
*		

Date	Page(s) Revised	Revised by

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ACCOMPANYING MAPS (see map legends on outside back cover).

A. Files Index Map (s) ..... Map A-1

B. Exploration Data Map (s) ..... Map B-1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C. (I.O.)	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report
Nip. Dist.	Nipissing District
Sud. Dist.	Sudbury District
Tim. Dist.	Timiskaming District
N.O.	Report of the Survey and Exploration of Northern Ontario, 1900
Ont.	Ontario
AF	Assessment Files

*

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	Yes	D.P.A.
3	OGS/ODM General Index	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	N.A.	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	Yes	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (OGS)	No	D.P.A.
14	Author - Subject Articles File	No	D.P.A.
15	ODM/OGS Miscellaneous Papers	Yes	D.P.A.
16	ODM Geological Circulars	No	D.P.A.
17	OGS Study Series	No	D.P.A.
18	ODM Preliminary Reports	No	D.P.A.
19	ODM Bulletins	No	D.P.A.
20	ODM/OGS Open File Reports	Yes	D.P.A.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
22	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
23	OGS Mineral Potential Maps	Yes	D.P.A.
24	Drill Core Library Catalogue	No	D.P.A.
25	Theses on File, Cobalt	No	D.P.A.
26	Aerial Photographs on File, Cobalt	Yes	D.P.A.
*			

MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite	gl ..... Gravel	ra ..... Radioactive minerals	ADDITIONS
ank ..... Ankerite	gyp ..... Gypsum	RE ..... Rare Earths	
ap ..... Apatite	hem ..... Hematite	sd ..... Sand	
arg ..... Argentite	Fe ..... Iron	sgl ..... Sand and gravel	
As ..... Arsenic	IF ..... Iron Formation	ss ..... Sandstone	
asp ..... Arsenopyrite	jas ..... Jasper	scap ..... Scapolite	
asb ..... Asbestos	ky ..... Kyanite	shee ..... Scheelite	
▲ ba ..... Barite	Pb ..... Lead	serp ..... Serpentine	
be ..... Beryl	lim ..... Limonite	sh ..... Shale	
Bi ..... Bismuth	Li ..... Lithium	sid ..... Siderite	
bn ..... Bornite	mgst ..... Magnesite	si ..... Silica	
Cd ..... Cadmium	mag ..... Magnetite	▲ Ag ..... Silver	
calc ..... Calcite	mc ..... Malachite	sl ..... Slate	
carb ..... Carbonate	Mn ..... Manganese	sm ..... Smaltite	
cc ..... Chalcocite	mb ..... Marble	sod ..... Sodalite	
cp ..... Chalcopyrite	mar ..... Marcasite	spec ..... Specularite	
ch ..... Chert	ma ..... Marl	sp ..... Sphalerite	
clay ..... Clay	mi ..... Mica	spd ..... Spodumene	
▲ Co ..... Cobalt	mo ..... Molybdenite	s ..... Sulphides	
cob ..... Cobaltite	Mo ..... Molybdenum	talc ..... Talc	
Cu ..... Copper	mon ..... Monazite	Te ..... Tellurium	
cor ..... Corundum	ne .... Nephelite (nepheline)	th ..... Thorite	
dol ..... Dolomite	Ni ..... Nickel	Th ..... Thorium	
ep ..... Epidote	Nb ..... Niobium	ti ..... Titanite	
fel ..... Feldspar	Pd ..... Palladium	Ti ..... Titanium	
fl ..... Fluorite (flurospar)	pent ..... Pentlandite	tour ..... Tourmaline	
fu. ..... Fuchsite	Pt ..... Platinum	W ..... Tungsten	
gn. ..... Galena	py ..... Pyrite	uran ..... Uraninite	
gt. ..... Garnet	pyl ..... Pyrochlore	U ..... Uranium	*
goe ..... Goethite	po ..... Pyrrhotite	verm ..... Vermiculite	
▲ Au ..... Gold	q ..... Quartz	Zn ..... Zinc	
gf ..... Graphite	qcv .. Quartz carbonate vein	zr ..... Zircon	

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Ref. Letter on Map	(see Exploration Data Map) Name(s)	Mineralization	REFERENCES IN SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	Additional References and/or Remarks
A	Tracey Lake Occurrence	ba		North Williams Tp. AF- Extender Minerals of Canada Ltd. Ferguson R. and Annett R.- personal communication
B	North William Tp. Occurrence I	Ag		OGS 1977, Map P.1514 North Williams Tp. AF- The Exploration Syndicate of Ontario
C	North Williams Tp. Occurrence 2	Ag, Co, Au		OGS 1977, Map P.1514 MNR 1947, North Williams Tp., Claim Map

MINERAL OCCURRENCES

Ref. Letter on Map	(see Exploration Data Map) Name(s)	Mineralization	REFERENCES IN SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	Additional References and/or Remarks

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done; e.g., 68 for 1968																OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
1	Extender Minerals of Canada Ltd.			77	77													
2	The Exploration Syndicate of Ontario			25		25		?										
3	Golden Shield Resources Ltd. and McFinley Gold Mines Ltd., Ogilvie, Browning, Unwin, Stull, Valin, Leask, North Williams and Dufferin Tps.	83	83			83												
4	Metron Explorations Ltd.	71			71													
5	Pope, Alex (See 1947 claim map)				47?													
6	Caswell (No data, see 1947 claim map)																	

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done; e.g., 68 for 1968															OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
1	Extender Minerals of Canada Ltd.	77-1	1977	N42W	-63	2	129	ba,mag,cp	ba
		77-2	1977	N42W	-63	8	119	ba	ba
		77-3	1977	N42W	-60	6	165	ba	
		77-6	1977	N42W	-53	0	270		
2	Extender Minerals of Canada Ltd.	77-4	1977	S42E	-60	3	200		
		77-5	1977	S42E	-35	0	150	ba	
3	Metron Exploration Ltd.	1	1971	S30W	-42	0	101	py,cp	
		2	1971	N30E	-45	0	100	py,po,cp	
4	Pope, Alex		1947?	No data, noted on 1947 claim map.					

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

● —— indicates core stored at Drill Core Library

AIRBORNE GEOPHYSICAL SURVEY DATA

Number on File Index Map(s)	— by — for — year	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA (see Exploration Data Map)		By	Reference
	Type of Survey	Analysis For		
1	Conglomerate rocks with some hematite content	Gold	Bell-White Laboratories Ltd.	North Williams Tp. AF Golden Shield Resources

NORTH WILLIAMS TOWNSHIP

GEOCHRONOLOGY DATA – AGE DATING

Site No. on Map	Method	Material	Reference	Result

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologists Office:

(a) Aerial Photographs: 1" = 1/4 mile, black and white, 1959, 1970

(b) Photomosaics:

(c) Satellite Imagery:

TOPOGRAPHIC MAPS (selected)

scale	year	name and/or number	by
1:50 000	1976	Opikinimika Lake, Ontario, NTS 41P/6	Surveys and Mapping Branch, EMR
1:50 000	1976	Smoothwater Lake, Ontario, NTS 41P/7	Surveys and Mapping Branch, EMR
1:20 000	1982	OBM 20 17 4900 52500 20 17 5000 52500	MNR

NEWSPAPER CLIPPINGS FILE (selected)

PAPER	DATE	PAGE	"ARTICLE HEADLINE" OR COMPANY AND/OR SUBJECT
?	April 8, 1925		Exploration Syndicate of Ontario, The

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

ANNETT, ROY
BOND LAKE
EXPLORATION SYNDICATE OF ONTARIO (THE)
EXTENDER MINERALS OF CANADA LTD.
FERGUSON, RALPH
GOLDEN SHIELD RESOURCES LTD.
MCFINLEY GOLD MINES LTD.
MCQUAH LAKE
METRON EXPLORATION LTD.
NORMAN LAKE
NORTH WILLIAMS TOWNSHIP
SILVESTER CREEK
SPEAR LAKE
SYDNEY LAKE
THEODORE LAKE
TRACEY LAKE
WEST WAPUS CREEK

Index Volume	Listing	Report Volume	Part	Page
1	Exploration Syndicate of Ontario			
	Capital and date of charter	18	1	43
	Work by, Shiningtree L. area	19	2	193
	Wilbur mine	20	1	108
		21	1	159
	North Williams Tp., Tim.			
	Silver claims staked	19	1	52
	mining	19	2	193
2	No Listings Found			
3	Exploration Syndicate of Ontario			
	Silver claims, Shiningtree l.	36	2	98
4	No Listings Found			
5	No Listings Found			
6	No Listings Found			
7	No Listings Found			
8	North Williams Tp., Tim. Dist. Geology of the Maple Mt. area	GR136		
9	No Listings Found			

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Card, K.D., et.al.	1971	Sudbury-Cobalt Sheet, Geological Compilation Series, Algoma, Manitoulin, Nipissing, Parry Sound, Sud. and Tim. Dist., Ont.	ODMNA Map 2188	1:253 440
Card, K.D., McIlwaine, W.H.	1973	Smoothwater Lake, Tim. Dist., Ont.	ODM Map 2256	1:63 360
Card, K.D., McIlwaine, W.H.	1973	Geology of the Maple Mountain Area, Tim., Nip., and Sud. Dist., Ont.	ODM GR 106	
Card, K.D., Lumbers, S.B.	1977	Sudbury-Cobalt, NTS 31L/W, 31M/SW, 41I, 41P/S, Sud. + AL5 Dists., Ont., Geological Compilation Series	ODM Map 2361	1:253 440
Collins, W.H.	1909	Preliminary Report in the Gowganda Mining Division, Dist. of Nip., Ont.	GSC Separate Report 1075 GSC Map 1076	 1:63 360
Collins, W.H.	1914	The Geology of the Gowganda Mining Division	GSC Memoir 33 GSC Map 64A	 1:63 360
Fortescue, J.A.C.	1985	Preliminary Studies of Lake Sediment Geochemistry in an Area Northeast of Sudbury, NTS 41I/15, 41P/2, 7, 10 Sud. and Tim. Dist., Ont.	OGS Geoph-Geoch Map 80 756	
GSC	1957	Aeromagnetic Map, Opikinimika Lake, Ont.	GSC Map 280G	1:63 360

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
GSC	1988	Gravity-Bouguer Anomalies, Sudbury, Ontario and Quebec	GSC Map NL-17-GR(BA)	1:1 000 000
Gupta, V.K.	1981	Bouguer Gravity and Generalized Geological Map of Gogama-Gowganda Area, NTS 41P, Tim. and Sud. Dist., Ont.	OGS Map P.2481	1:100 000
Gupta, V.K., Wadge, D.R.	1980	Bouguer Gravity and Generalized Geological Map, Temagami-Englehart Area, NTS 31M/W, 41P/E, Tim. and 2 AL Dist., Ont.	OGS Map P.2296	1:100 000
Hornbrook, E.H.W. and Friske, P.W.B.	1988	Regional Lake Sediment and Water Geochemical Reconnaissance Data, Gogama Area, Ont.	GSC OFR 1640	
Jolly, W.T.	1978	Metamorphic History of the Archean Abitibi Belt	GSC Paper 78-10	pp. 63-78
Kutina, Jan and Fabbri, Andrea	1971	Relationship of Structural Lineaments and Mineral Occurrences in the Abitibi area of the Canadian Shield	GSC Paper 71-9	36 p.
Legun, A.	1984	Huronian Stratigraphy and Sedimentation in the Cobalt area, NTS 31M/W and 41P, Ont.	OGS OFR 5508	
Long, D.G.F.	1986	Stratigraphic and Depositional Setting of Placer Gold Concentrations in Basal Huronian Strata of the Cobalt Plain	OGS OFR 5593	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Long, D.G.F., Colvine, A.C.	1986	Geology of Huronian Strata in part of the Northwestern Cobalt Plain including Sheard, Ogilvie, Amyot, Browning, Hodggets, Unwin, Lampman, and Leask Townships, and parts of North Williams, Dufferin, Stull, Valin and Marshay Townships, NTS 41P/3N and 41P/6, Tim. and Sud. Dist., Ont.	OGS Map P.3048	1:50 000
Mansinka, L., Wilkinson, D.A.	1983	Grant No. 109: Interpretation of Gravity Data from New Liskeard, NTS 31M/W, 41P/E, Ont.	OGS OFR 5440	
OGS	1979	Airborne Gamma-Ray Spectrometry Maps and Profiles	OGS Geophys-Geoch Maps 80372-80410	1:250 000
Parks, W.A.	1907	The Geology of a District from Lake Timiskaming Northward	GSC Sum. Rept. 1904, vol. XVI, pt. A	pp. 198-225
Redman, J.D., Strangway, D.W.	1986	Ontario Geoscience Research Grant Program, Grant No. 118, Surface Electromagnetic Mapping in Northern Ontario	OGS OFR 5615	
Rice, R.	1987	Regional Sedimentology of the Lorrain Formation (Aphebian), Central Cobalt Embayment; in Summary of Field Work and Other Activities by the OGS	OGS MP 137	p. 210-216

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
Roed, M.A., Hallett, D.R.	1980	Westree Area, NTS 41P/SW, Sud. and Tim. Dist., Ont.	NOEGTS 88	
Roed, M.A., Hallett, D.R.	1980	NOEGTS Data Base Map, Westree, NTS 41P/SW, Tim. and Sud. Dist., Ont.	OGS Map 5022	1:100 000
Roed, M.A.	1980	Maple Mountain Area, NTS 41P/SE, Tim., Sud. and Nip. Dist., Ont.	NOEGTS 89	
Roed, M.A., Hallett, D.R.	1980	NOEGTS Data Base Map, Maple Mountain, NTS 41P/SE, Dist. of Sud. + 2AL Dist., Ont.	OGS Map 5023	1:100 000
Springer, J.	1977	Ontario Mineral Potential, Gogama Sheet and part of Ville Marie Sheet, NTS 41P, 31M/W, Tim. and Sud. Dist., Ont.	OGS Map P.1514	1:250 000
Symons, D.T.A., Stupavsky, M.	1983	Grant No. 143: Analysis of Aeromagnetic Anomalies over Algoman-Type Iron Formations	OGS OFR 5476	

Note No.	NOTES
	The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data. On the maps, only the areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown. No present or past producers. The township was closed to staking in 1978 due to the Bear Island Caution. Part of North Williams Township will be re-opened for staking on April 1, 1990.

ADDENDA

CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

For further information please contact:

RESIDENT GEOLOGIST
Box 230
Presley Street
Cobalt, Ontario
POJ 1CO

MAP LEGENDS

A. FILES INDEX MAP

FILE AREAS **See pages 4-1,2 .... of text**

- ■ Reference number is always inside work area outlined. See listing in text pages.
- ☐ Small area of exploration data
- ■ File covers whole township or area
- ☐

B. EXPLORATION DATA MAP

MINERAL OCCURRENCES: See pages 3-1,2.... of text

- ■ Mineral occurrence at surface, with reference letter
- ☐ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralized float with reference letter
- ■ Mineral occurrence encountered in drilling, with reference letter
- ☐

DRILLHOLES: See pages 5-1,2.... of text

- ☐ Location of single drillhole, with reference number
- ■ Location of group of closely spaced drillholes, with reference number
- ☐ Drillhole, exact location uncertain, with reference number
- ☐ Property with underground drillholes in this general area, with reference number
- ☐ Property with drillholes which have not been plotted on map, with reference number
- ☐ Reverse circulation drillhole; churn drilling, with reference number
- ☐

GEOCHEMICAL: See pages 7-1,2....of text

- ■ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐

GEOPHYSICAL ANOMALIES

Airborne Surveys: See pages 6-1,2.... of text

- ☐ AM — Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ AEM — Airborne electromagnetic anomaly Conductor axis: Location of flight lines uncertain
- ☐ ARA — Airborne radiometric anomaly

Ground Surveys

- ☐ M — Ground magnetic anomaly
- ☐ VL — Ground electromagnetic anomaly (VL - Vertical loop, HL - Horizontal loop VLF - Very low freq., Turam; JEM - Crone Em - 16)
- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio-frequency magnetic anomaly (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly
- ☐

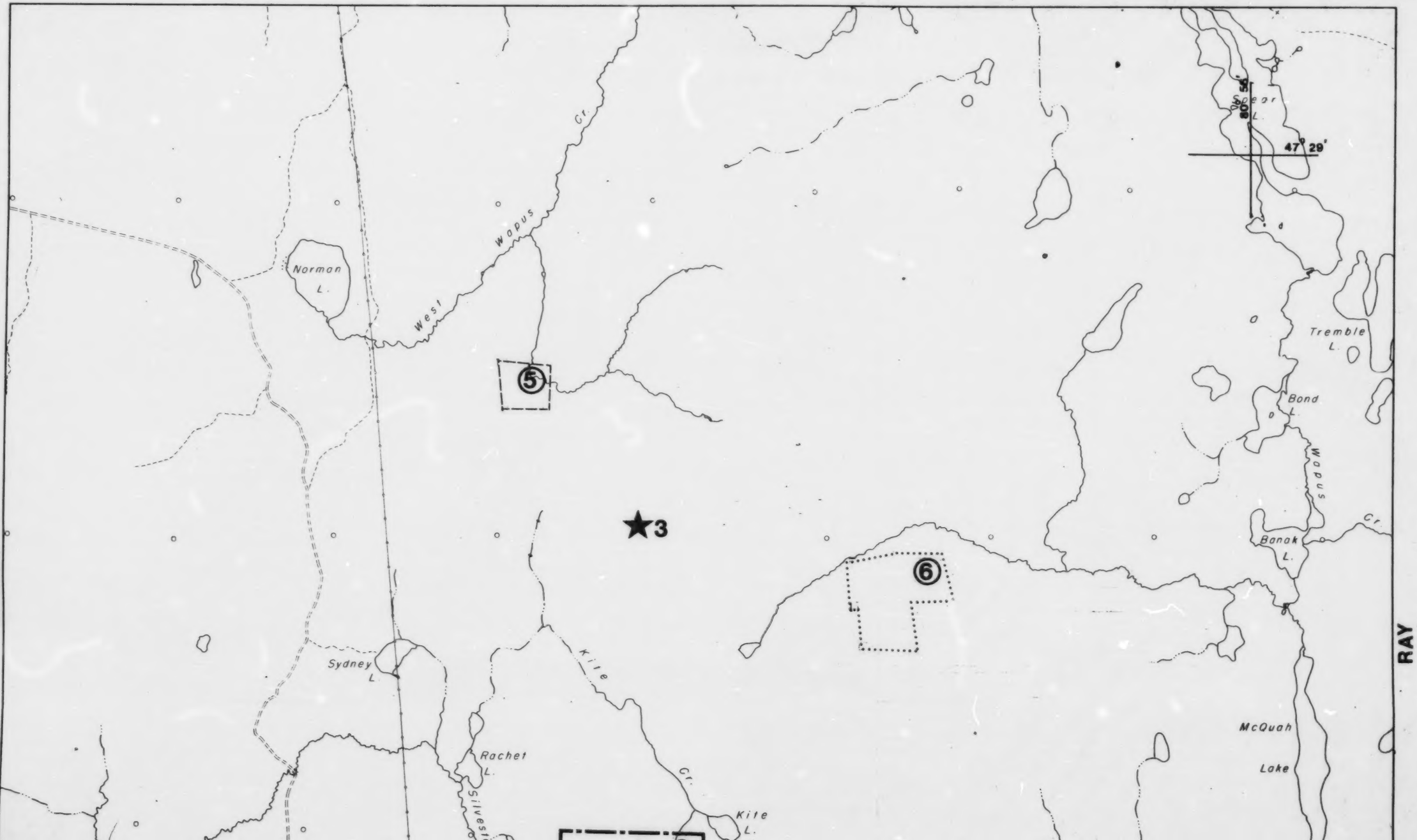
GEOCHRONOLOGICAL DATA: See page 8 of text

- ☐ Age dating material sampling site, with reference number
- ☐

MISCELLANEOUS DATA

- ■ Trenching, pit
- ☐ Rock quarry
- ☐ Adit
- ☐ Open pit
- ☐ Sand and/or gravel pit
- ☐
- ☐

LEONARD


Normon L.
West Wapus Cr.
Spear L.
47° 29'
Tremble L.
Bond L.
Wapus Cr.
Banak L.
OGILVIE
RAY
Sydney L.
Rachet L.
Silvester
Kite Cr.
Kite L.
McQuah Lake
5
6
★3

OGILVIE

RAY

★3

Sydney L.

Rachet L.

Silvestri Cr.

Kite Cr.

Kite L.

Tracey

Banak L.

McQuah Lake

Mooserun L.

Theodore L.

NORTH WILLIAMS

81° 04'

47° 25'

DUFFERIN

Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

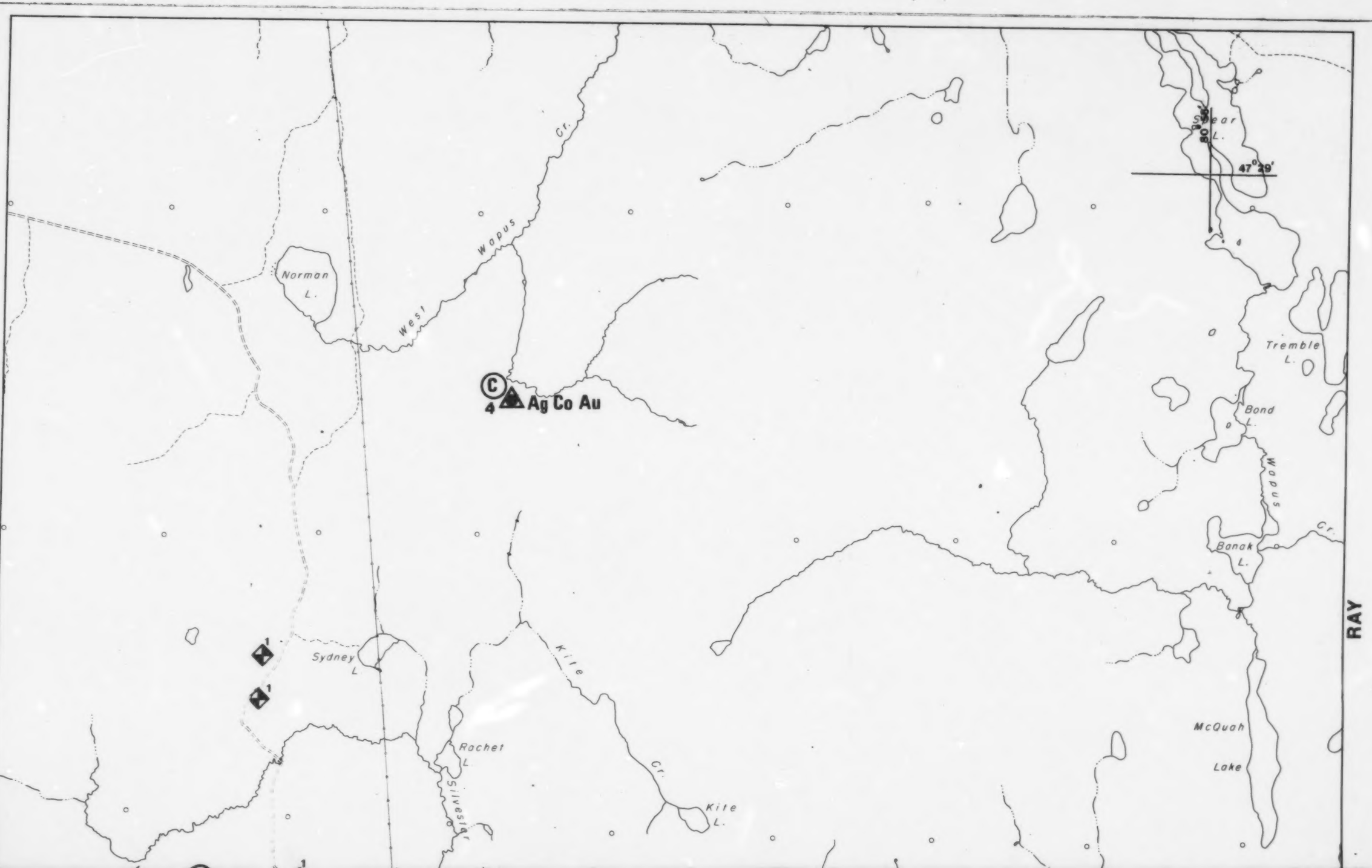
GEOLOGICAL DATA INVENTORY FOLIO 570

NORTH WILLIAMS TOWNSHIP

A. FILES INDEX MAP (Map A-1)

SEE MAP LEGENDS ON BACK COVER OF ACCOMPANYING TEXT

LEONARD


Norman L.
West Wapus Cr.
C
4
Ag Co Au
1
1
Sydney L.
Rochet L.
Silvester
Kite Cr.
Kite L.
Bear L.
47° 29'
Tremble L.
Bond L.
Wapus Cr.
Banak L.
McQuoh Lake
OGILVIE
RAY

OGILVIE

RAY

Sydney L.

Rachet L.

Silvester Cr.

Kite Cr.

Kite L.

Tracey L.

Banok L.

McQuoh Lake

Mooserun L.

Theodore L.

NORTH WILLIAMS

DUFFERIN

81°04'

47° 25'

B Ag

A ba

2

1

3

Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL DATA INVENTORY FOLIO 570

NORTH WILLIAMS TOWNSHIP

B. EXPLORATION DATA MAP (Map B-1)

SEE MAP LEGENDS ON BACK COVER OF ACCOMPANYING TEXT